SAMPLE

Foundry Operations
Safety Inspection Checklist

Area & Item Problems & Comments

Pattern Shop:
_____ Noise at saws, machines, and ventilation.
_____ Solvent vapors and painting.
_____ Epoxy vapors and gluing.
_____ Dust from woodworking and other machines.
_____ Ventilation provided and adequate.

Core Room:
_____ Mineral dusts at auto molding.
_____ Silica dusts at sand mulling and core finishing.
_____ Gases and vapors at core molding and curing.
_____ Ventilation provided and adequate.
_____ Noise at auto core molding.

Molding/Pour Areas:
_____ Dusts at molding, parting application, sleeving cutting.
_____ Metal fumes at pouring floor and furnace area.
_____ Gases and vapors infiltrating to pouring floor.
_____ Heat and radiant energy protection at the pouring floor.
_____ Ventilation provided and adequate.
_____ Noise at sand slinging and squeeze jolt molding.

Shake Out Department:
_____ Dusts at shakeout from foundry, sand cores, riser sleeves, and castings.
_____ Fumes from castings.
_____ Noise from shakeout.
_____ Gases and vapors from shakeout and from decomposition of sand binders.
_____ Ventilation provided and adequate.

Fire Safety and Prevention:
_____ Fire extinguishers, sprinklers, written fire plan
_____ Extinguishers properly located checked and maintained

Housekeeping and Sanitation:

_____ Work area floors and aisles.
_____ Storage areas.
_____ Lockerrooms, bathrooms, and lunchrooms.
_____ Maintenance and repair areas.
_____ Yard areas and outside storage.

Cleaning And Grinding Areas:

_____ Dusts from chipping, grinding, core knockout tumbling, sand/shot blasting, sprue cutting, swing grinding, and finish grinding.
_____ Fumes from oxyacetylene, power arc, carbon torch burning of gases and risers.
_____ Noise from chipping, grinding, core knocking, machine cutting, washing tumbling, and blast cleaning.
_____ Gases and vapors from torch cutting, power arc burning,
and infiltration from other areas.
_____ Ventilation provided and adequate.

Inspection Department:

_____ Vapors from solvents used during penetrant and magnaflux operations.
_____ Ventilation provided and adequate.
_____ Ionizing radiation from x-ray inspection.
_____ Non-ionizing ultraviolet radiation from penetrant inspection.

Sand Handling and Storage Areas:

_____ Mineral dust at rail car unloading, bin areas, sand washing and foundry sand mulling.
_____ Ventilation provided and adequate.
_____ Noise at sand bins (vibrators), sand washing, and bag house.

Personal Protective Equipment:

_____ Hard hats
_____ Eye Protection, helmets, and face shields.
_____ Safety shoes
_____ Gloves, aprons, leggings, and other clothing.

_____ Eyewash facilities.
_____ Hearing protection.
_____ Respiratory protection.
_____ Heat exertion protection.

First Aid, Safety, and Emergency Procedures:

_____ First aid kit/supplies.
_____ Emergency procedures and numbers posted.
_____ Trained/designated First Responder.
_____ Written infection control plan.
_____ Evacuation routes posted.
_____ Exits adequately marked, lighted, and clear.
_____ Appropriate posting of warning and caution signs.
_____ Permit Required Confined Space entry procedures.

General Safety:

_____ Walking working surface conditions.
_____ Aisleways marked and clear.
_____ Ladder location and condition.
_____ Stairways, walkways, and platforms handrails, railings, and toeboards.
_____ Flammable and combustible storage and bonding.
_____ Welding, cutting, and hot work equipment and practices.
_____ Spray painting operations.
_____ Compresses air equipment operations and maintenance.
_____ Materials handling and storage practices.
_____ Crane operations, procedures and maintenance.
_____ Machinery and equipment guarding.
_____ Hand tools and portable power tools.
_____ Facility electrical circuitry and service equipment.
_____ Lockout/Tagout hazardous energy procedure.
_____ Hazard communication program.
_____ OSHA Poster displayed.
_____ OSHA 200 maintained.
_____ Standard accident report form in use.